



# ASC Purple Decommissioning Ceremony

Planned in 2000, deployed in 2005, and retired in 2010, the ASC Purple system realized the bold ASCI vision expressed in 1996: development of 3D full-system weapons performance codes and installation of a 100-teraFLOPS computer capable of rapidly and successfully running 3D full-system, full-physics simulations of nuclear weapons detonation processes.

**Lawrence Livermore National Laboratory**



*At Supercomputing 2002, Energy Secretary Spencer Abraham announced that IBM will build ASCI Purple. "With our world-class scientists at the national defense laboratories teaming with leading U.S. industrial and academic partners, we assure continued confidence in our nuclear stockpile."*

## **ASC Purple**

**June 2005 – November 2010**



*Kim Cupps, Terri Quinn, Pam Hamilton, Dona Crawford, and IBM's Nicholas Donofrio meet with press in the Terascale Simulation Facility at the ASC Purple dedication.*



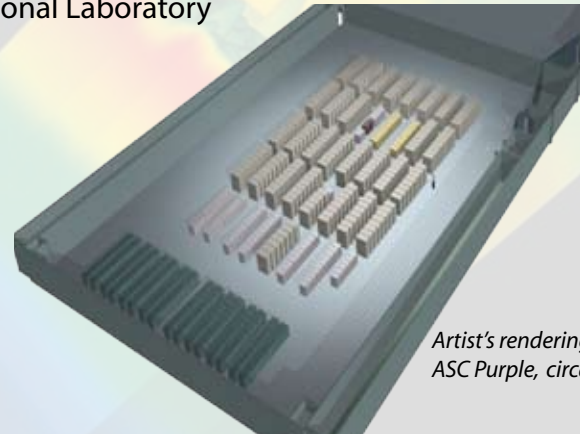
*Members of the Purple integration team, from both LLNL and IBM, pose in front of the completed ASC Purple machine.*



# ASC Purple Decommissioning Ceremony



November 9, 2010; 9:00–10:00 a.m.  
Building 453, Armadillo Room and TSF Lobby  
Lawrence Livermore National Laboratory



*Artist's rendering of  
ASC Purple, circa 2003.*

**9:00** **Michel McCoy**, ASC Program Director  
Lawrence Livermore National Laboratory

**9:05** **Retrospective Video**

**9:15** **Bob Meisner**, ASC Program Director  
National Nuclear Security Administration

**9:25** **Chris Maher**, Vice President for HPC  
Systems and Technology Group, IBM

**9:30** **Bruce Goodwin**, Principal Associate Director, Weapons & Complex Integration  
Lawrence Livermore National Laboratory

**9:45** **Reception**



Three-dimensional high-resolution "Grand Challenge" simulations on ASC Purple, in support of the National Ignition Campaign, were performed to select capsule designs that minimize instability growth. The figure shows simulations before (l.) and after optimization (r.) of the design to minimize penetration of the beryllium into the fusion fuel (a deuterium-tritium mixture).

